

THERAPEUTIC AGENT CARRIER COMPOSITIONS**ABSTRACT OF THE DISCLOSURE**

5 Disclosed herein are therapeutic agent carrier compositions that include a carrier
comprised of a stimulus sensitive gel, fibrin, or combinations thereof, and a therapeutic
agent such as an aqueous insoluble or confined radioisotope. Stimulus sensitive gels
include thermally reversible stimulus-sensitive gels that are linear random copolymers
of a [meth-]acrylamide derivative and a hydrophilic comonomer; thermogelling
10 biodegradable polymers, which include biodegradable polymers including a linked
polyethylene glycol (PEG) block and biodegradable polyester block; and enzymatically
degradable polypeptide polymers. In certain embodiments the therapeutic agent is a
hydrothermally synthesized radioactive therapeutic agent, such as a ⁹⁰-yttrium phosphate
colloid. Methods of making such carrier compositions and methods of using such
15 carrier compositions to treat diseases such as cancer also are disclosed. For example,
the carrier compositions can be injected into a tumor to treat a cancer and can be applied
to the margins of a resected tumor to destroy vestigial cancer cells.